



Combined Declaration for Patent Application and Power of Attorney with Delegation

As a separation of the second	ntor, I hereby declare that:	Docket N	lumber: <u>1581.(</u>	<u>)840001</u>
	ce address and citizenship are as stated belo	ow next to my name.		
plural names are listed	nal, first and sole inventor (if only one name below) of the subject matter that is claimed appositions and methods", the specification of	and for which a patent is sought on t	the invention er	ntitled
as United Stat	es Application Number or PCT Internations on (if applicable).		and	
I hereby state that I have amended by any amend	ve reviewed and understand the contents of diment referred to above.	the above identified specification, in	cluding the clai	ims, as
I acknowledge the duty	to disclose information that is material to	patentability as defined in 37 C.F.R.	§ 1.56.	
inventor's certificate, o United States listed be	priority benefits under 35 U.S.C. § 119(a)- σ § 365(a) of any PCT international application, and have also identified below any for an having a filing date before that of the approximation.	tion, which designated at least one co eign application for patent or invento	ountry other the or's certificate, o	an the
Prior Foreign Applicat	ion(s)		Priority	Claimed
9904028.9 (Application No.)	United Kingdom (Country)	22 February 1999 (Day/Month/Year Filed)	⊠ Yes	□ No
9922561.7 (Application No.)	United Kingdom (Country)	23 September 1999 (Day/Month/Year Filed)	⊠ Yes	□ No
I hereby claim the ben	efit under 35 U.S.C. § 119(c) of any United	States provisional application(s) list	ed below.	
(Application No.)	(Filing Date)			
(Application No.)	(Filing Date)			
international application this application is not paragraph of 35 U.S.O.	efit under 35 U.S.C. § 120 of any United Son designating the United States, listed belodisclosed in the prior United States or PCT. § 112, I acknowledge the duty to disclose arme available between the filing date of the ication.	ow and, insofar as the subject matter international application in the mann- information that is material to paten	of each of the c acr provided by tability as defin	the first and in 37
PCT/GB00/000624	22 February 2000	Pending		
(Application No.)	(Filing Date)	(Status - patented, pe	ending, abandor	ned)

PCT/GB00/000624	22 February 2000	Pending
(Application No.)	(Filing Date)	(Status - patented, pending, abandoned)
Application No.)	(Filing Date)	(Status - patented, pending, abandoned)
	(=)	

I hereby appoint the following attorney(s) and/or agent(s) to prosecute this application and to transact all business in the Patent and Trademark Office connected therewith:

Robert G. Sterne, Esq., Reg. No. 28,912; Edward J. Kessler, Esq., Reg. No. 25,688; Jorge A. Goldstein, Esq., Reg. No. 29,021; Samuel L. Fox, Esq., Reg. No. 30,353; David K.S. Cornwell, Esq., Reg. No. 31,944; Robert W. Esmond, Esq., Reg. No. 32,893; Tracy-Gene G. Durkin, Esq., Reg. No. 32,831; Michele A. Cimbala, Esq., Reg. No. 33,851; Michael B. Ray, Esq., Reg. No. 33,997; Robert E. Sokohl, Esq., Reg. No. 36,013; Eric K. Steffe, Esq., Reg. No. 36,688; and Michael Q. Lee, Esq., Reg. No. 35,239.

I hereby authorize the U.S. attorneys named herein to accept and follow instructions from Mathys & Squire, 100 Gray's Inn Road, London WC1X 8AL, ENGLAND, as to any action to be taken in the U.S. Patent and Trademark Office regarding this application without direct communication between the U.S. attorneys and me. In the event of a change in the persons from whom instructions may be taken, the U.S. attorneys named herein will be so notified.

Send Correspondence to:

STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C. 1100 New York Avenue, N.W., Suitc 600 Washington, D.C. 20005-3934

Direct Telephone Calls to:

(202) 371-2600

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Full name of sole or first inventor Andrew Robinson	
Signature of sole or first inventor	Date Z2 / 02
Residence Firdowne, Gomeldon Hill, Winterbourne Gunner, Salisbury, Wiltshire SP4 6JZ, United Kingdom.	
Citizenship United Kingdom	
Post Office Address (As Above)	
Full name of second inventor Audrew Richard Corringe	
Full name of second inventor Andrew Richard Corringe Signature of second inventor A. L. Commage	Date 22/0/02
	Date 22/0/02
Signature of second inventor A. R. Coming e	Date 22/0/02
Signature of second inventor A. R. Comuse C. Residence 8 Berkshire Road, Salisbury, Wiltshire SP2 8NW United Kingdom.	Date 22/0/02

ull name of third inventor Michael John Hudson	Date 22 i last
Residence 46 Bouverie Avenue, Salisbury, Wiltshire SP2 8DT, United Kingdom	
Citizenship United Kingdom	
Post Office Address (As Above)	
Full name of fourth inventor Philippa Bracegirdle	
Signature of fourth inventor PRivary	Date 22/1/02
Residence 27 Fair View Road, Salisbury, Wiltshire, SP1 1JX, United Kingdom	
Citizenship United Kingdom	
Post Office Address (As Above)	
Full name of fifth inventor John Simon Kroll	
Signature of fifth inventor	Date
Residence 58 Park Town, Oxford, OX2 6SJ, United Kingdom	
Citizenship United Kingdom	
Post Office Address (As Above)	
Full name of sixth inventor Paul Richard Langford	
Signature of sixth inventor	Date
Residence 5 Newton Road, Oxford OX1 4PT, United Kingdom	
Citizenship United Kingdom	

Full name of seventh inventor Steven Anthony Rochford Webb	
Signature of seventh inventor	Date
Residence 153 Heytesbury Road, Subiaco, Western Australia 6008, Australia	
Citizenship United Kingdom	
Post Office Address (As Above)	
Full name of eighth inventor Keith Cartwright	
Signature of eighth inventor	Date
Residence Brobury House, Brobury, Herefordshire HR3 6BS, United Kingdom	
Citizenship United Kingdom	
Post Office Address (As Above)	
Full name of ninth inventor Cliona Anne O'Dwyer	
Full name of ninth inventor Cliona Anne O'Dwyer Signature of ninth inventor	Date
	Date
Signature of ninth inventor	Date
Signature of ninth inventor Residence "Ealga" Cushmeigmore, Furbo, County Galway, Republic of Ireland	Date
Signature of ninth inventor Residence "Ealga" Cushmeigmore, Furbo, County Galway, Republic of Ireland Citizenship Irish	Date
Signature of ninth inventor Residence "Ealga" Cushmeigmore, Furbo, County Galway, Republic of Ireland Citizenship Irish Post Office Address (As Above)	Date 22/1/02
Signature of ninth inventor Residence "Ealga" Cushmeigmore, Furbo, County Galway, Republic of Ireland Citizenship Irish Post Office Address (As Above) Full name of tenth inventor Karen Margaret Reddin	
Signature of ninth inventor Residence "Ealga" Cushmeigmore, Furbo, County Galway, Republic of Ireland Citizenship Irish Post Office Address (As Above) Full name of tenth inventor Karen Margaret Reddin Signature of tenth inventor Karen Margaret Reddin	

H:WPOOCSIGWSFDRMSNUSFORMSNI1091USC.DEC SKQF Rev. 9/2/95 mic (Supply similar information and signature for subsequent joint inventors, if any)



Combined Declaration for Patent Application and Power of Attorney with Delegation

Docket Number: 1581.0840001

w named inventor, I hereby declare that:

was amended on _

My residence, post office address and citizenship are as stated below next to my name.

1 1	e I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if ames are listed below) of the subject matter that is claimed and for which a patent is sought on the invention entitled rial vaccine compositions and methods", the specification of which is attached hereto unless the following box is:
	was filed on; as United States Application Number or PCT International Application Number; and was amended on (if applicable).

I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose information that is material to patentability as defined in 37 C.F.R. § 1.56.

I hereby claim foreign priority benefits under 35 U.S.C. § 119(a)-(d) or § 365(b) of any foreign application(s) for patent or inventor's certificate, or § 365(a) of any PCT international application, which designated at least one country other than the United States listed below, and have also identified below any foreign application for patent or inventor's certificate, or PCT international application having a filing date before that of the application on which priority is claimed.

Prior Foreign Application(s))		Priority	Claimed
9904028.9 (Application No.)	United Kingdom (Country)	22 February 1999 (Day/Month/Year Filed)	⊠ Yes	□ No
9922561.7 (Application No.) I hereby claim the benefit u	United Kingdom (Country) nder 35 U.S.C. § 119(e) of any Unite	23 September 1999 (Day/Month/Year Filed) d States provisional application(s) lis	⊠ Yes	□ No
(Application No.)	(Filing Date)			
(Application No.)	(Filing Date)			

I hereby claim the benefit under 35 U.S.C. § 120 of any United States application(s), or under § 365(c) of any PCT international application designating the United States, listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States or PCT international application in the manner provided by the first paragraph of 35 U.S.C. § 112, I acknowledge the duty to disclose information that is material to patentability as defined in 37 C.F.R. § 1.56 that became available between the filing date of the prior application and the national or PCT international filing date of this application.

PCT/GB00/000624	22 February 2000	Pending
(Application No.)	(Filing Date)	(Status - patented, pending, abandoned)
(Application No.)	(Filing Date)	(Status - patented, pending, abandoned)

Appl. No	_	
Docket No.	1581	.084000

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Full name of sole or first inventor Andrew Robinson	
Signature of sole or first inventor	Date
Residence Firdowne, Gomeldon Hill, Winterbourne Gunner, Salisbury, Wiltshire SP4 6JZ, United Kingdom.	
Citizenship United Kingdom	****
Post Office Address (As Above)	
Full name of second inventor Andrew Richard Gorringe	
Full name of second inventor Andrew Richard Gorringe Signature of second inventor	Date
	Date
Signature of second inventor	Date
Signature of second inventor Residence 8 Berkshire Road, Sallsbury, Wiltshire SP2 8NY, United Kingdom.	Date

Full name of third inventor Michael John Hudson	
Signature of third inventor	Date
Residence 46 Bouveric Avenue, Salisbury, Wiltshire SP2 8DT, United Kingdom	
Citizenship United Kingdom	
Post Office Address (As Above)	
Full name of fourth inventor Philippa Bracegirdle	
Signature of fourth inventor	Date
Residence 27 Fair View Road, Salisbury, Wiltshire, SP1 1JX, United Kingdom	
Citizenship United Kingdom	
Post Office Address (As Above)	
Full name of fifth inventor John Simon Kroll	
Signature of fifth inventor	Date 25/2/02
Residence 58 Park Town, Oxford, OX2 6SJ, United Kingdom	
Citizenship United Kingdom	
Post Office Address (As Above)	4
Full name of sixth inventor Paul Richard Langford	
Signature of sixth inventor Paul Langford	Date 25/2/02
Residence 5 Newton Road, Oxford OX1 4PT, United Kingdom	
Citizenship United Kingdom	
Post Office Address (As Above)	

	l l
Full name of seventh inventor Steven Anthony Rochford Webb	
Signature of seventh inventor	Date
Residence 153 Heytesbury Road, Subiaco, Western Australia 6008, Australia	.
Citizenship United Kingdom	
Post Office Address (As Above)	
Full name of eighth inventor Keith Cartwright	
Signature of eighth inventor	Date
Residence Brobury House, Brobury, Herefordshire HR3 6BS, United Kingdom	
Citizenship United Kingdom	
Post Office Address (As Above)	
Full name of ninth inventor Cliona Anne O'Dwyer	
Full name of ninth inventor Cliona Anne O'Dwyer Signature of ninth inventor	Date 4/5/02
70	Date 4/5/02
Signature of ninth inventor (12372 O Duyl	Date 4 (3/0)
Signature of ninth inventor Residence "Ealga" Cushmeigmore, Furbo, County Galway, Republic of Ireland	Date 4/3/02
Residence "Ealga" Cushmeigmore, Furbo, County Galway, Republic of Ireland Citizenship Irlsh	Date 4/3/02
Signature of ninth inventor Residence "Ealga" Cushmeigmore, Furbo, County Galway, Republic of Ireland Citizenship Irlsh Post Office Address (As Above)	Date 4 (3/0)_
Signature of ninth inventor Residence "Ealga" Cushmeigmore, Furbo, County Galway, Republic of Ireland Citizenship Irlsh Post Office Address (As Above) Full name of tenth inventor Karen Margaret Reddin	
Signature of ninth inventor Residence "Ealga" Cushmeigmore, Furbo, County Galway, Republic of Ireland Citizenship Irish Post Office Address (As Above) Full name of tenth inventor Karen Margaret Reddin Signature of tenth inventor	

HAWPDOCENGWEFORMENDEFORMENDIOFILIEC.DEC SKGF Riv. 92/98 stat (Supply similar information and signature for subsequent joint inventors, if any)



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My residence, post office address and citizensh	ip are as stated below next to my name.
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ALIE .		Docket P	Anupet: Tagringahoni
ADMARW named inv	entor, I hereby declare that:		
My residence, post of	fice address and citizenship are as stated belo	ow next to my name.	
I believe I am the orig	rinal, first and sole inventor (if only one named below) of the subject matter that is claimed ompositions and methods", the specification	e is listed below) or an original, first	
was filed on as United St. was amende	ates Application Number or PCT Internation d on(if applicable)	al Application Number	and
I hereby state that I h amended by any ame	ave reviewed and understand the contents of nument referred to above.	the above identified specification, i	ncluding the claims, as
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Prior Foreign Applic	eation(s)		Priority Claimed
9904028.9 (Application No.)	United Kingdom (Country)	22 February 1999 (Day/Month/Year Filed)	⊠ Yes □ No
9922561.7	United Kingdom (Country)	23 September 1999 (Day/Month/Year Filed)	⊠ Yes □ No
(Application No.) I hereby claim the b	enefit under 35 U.S.C. § 119(e) of any Unite		sted below.
(Application No.)	(Filing Date)		
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I hereby claim the b international applica- this application is no paragraph of 35 U.S.	enefit under 35 U.S.C. § 120 of any United ation designating the United States, listed be of disclosed in the prior United States or PC S.C. § 112, I acknowledge the duty to disclose came available between the filing date of the oplication.	low and, insofar as the subject matte T international application in the ma- se information that is material to pate	er of each of the claims of nner provided by the first entability as defined in 37
PCT/GB00/000624		Pending	di sheed-med
(Application No.)	(Filing Date)	(Status - patented,	pending, abandoned)
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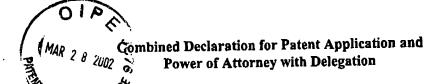
Full name of sole or first inventor Andrew Robinson		
Signature of sole or first inventor	Date	
Residence Firdowne, Gomeldon Hill, Winterbourne Gunner, Salisbury, Wiltshire SP4 6JZ, United Kingdom.		
Citizenship United Kingdom		
Post Office Address (As Above)		
Full name of second inventor Andrew Richard Gorringe		
Full name of second inventor Andrew Richard Gorringe Signature of second inventor	Date	
	Date	
Signature of second inventor	Date	
Signature of second inventor Residence 8 Berkshire Road, Salisbury, Wiltshire SP2 8NY, United Kingdom.	Date	

Post Office Address (As Above)

Full name of third inventor Michael John Hudson		
Signature of third inventor	Date	
Residence 46 Bouverie Avenue, Salisbury, Wiltshire SP2 aDT, United Kingdom		
Citizenship United Kingdom		
Post Office Address (As Above)		
Full name of fourth inventor Philippa Bracegirdle		
Signature of fourth inventor	Date	
Residence 27 Fair View Road, Salisbury, Wiltshire, SP1 1JX, United Kingdom		
Citizenship United Kingdom		
Post Office Address (As Above)		
Full name of fifth inventor John Simon Kroll		
Signature of fifth inventor	Date	
Residence 58 Park Town, Oxford, OX2 68J, United Kingdom		
Citizenship United Kingdom	,	
Post Office Address (As Above)	:	
Full name of sixth inventor Paul Richard Langford		
Signature of sixth inventor	Date	1
Residence 5 Newton Road, Oxford OX1 4PT, United Kingdom		
Citizenship United Kingdom		

		- 1
Full name of seventh inventor Steven Anthony Rochford Webb		4
Signature of seventh inventor 2012 Webs	Date 14/3/0.	2
Residence 153 Heytesbury Road, Sublaco, Western Australia 6008, Australia	-	\dashv
Citizenship United Kingdom		_
Post Office Address (As Above)		
Full name of eighth inventor Kelth Cartwright		
Signature of eighth inventor	Date	
Residence Brobury House, Brobury, Herefordshire HR3 6BS, United Kingdom		
Citizenship United Kingdom		
Post Office Address (As Above)		
Full name of ninth inventor Cliona Anne O'Dwyer		
Signature of ninth inventor	Date	_
Residence "Enlga" Cushmeigmore, Furbo, County Galway, Republic of Ireland		
Citizenship Irish		
Post Office Address (As Above)		
Full name of tenth inventor Karen Murgaret Reddin		
Signature of tenth inventor	· Date	
Residence "Whisgils", Whitbread Road, Salisbury, Wiltshire SP2 9PE, United Kingdom		
Citizenship United Kingdom		
Post Office Address (As Above)		
		1

NAMPOCONIMENDAMENTEROUNGS (IN) (ASC.DEC SKOF New 1974) mes (Supply aimilar information and signature for subsequent joint inventors if any)



To have	4.5°	Docket 1	Number: <u>1581.</u>	08400 <u>01</u>
As a below named invalided,	Thereby declare that:			
My residence, post office ad	ddress and citizenship are as stated bel	ow next to my name.		
a at assess and listed below	first and sole inventor (if only one name) of the subject matter that is claimed itions and methods.", the specification	d and for which a patent is sought on	file Illacurron c	HILLIPA
was filed on as United States A was amended on _	; pplication Number or PCT Internation (if applicable)	nal Application Number	; and	
I hereby state that I have re amended by any amendmen	viewed and understand the contents of nt referred to above.	f the above identified specification, is	ncluding the cla	ims, as
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Prior Foreign Application(s)	•	Priority	Claimed
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international application d this application is not disc paragraph of 35 U.S.C. § 1	under 35 U.S.C. § 120 of any United a esignating the United States, listed be losed in the prior United States or PC 112, I acknowledge the duty to disclos available between the filing date of them.	low and, insofar as the subject matter I international application in the mar se information that is material to pate	r of each of the one of the one of the one of the one of the or of the office of the o	the first ned in 37
PCT/GB00/000624	22 February 2000	Pending		
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Appl. No	
	1581.084000

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Full name of eighth inventor Keith Cartwright	
Signature of eighth inventor KAV, Cunffred W	10,10, PL stad
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Citizenship United Kingdom	
Post Office Address (As Above)	
Full name of ninth inventor Cliona Anne O'Dwyer	
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Signature of ninth inventor	Date
Signature of ninth inventor Residence "Ealga" Cushmeigmore, Furbo, County Galway, Republic of Ireland	Date
Signature of ninth inventor Residence "Ealga" Cushmeigmore, Furbo, County Galway, Republic of Ireland Citizenship Irish	Date
Signature of ninth inventor Residence "Ealga" Cushmeigmore, Furbo, County Galway, Republic of Ireland Citizenship Irish Post Office Address (As Above)	Date
Signature of ninth inventor Residence "Ealga" Cushmeigmore, Furbo, County Galway, Republic of Ireland Citizenship Irish Post Office Address (As Above) Full name of tenth inventor Karen Margaret Reddin	
Signature of ninth inventor Residence "Ealga" Cushmeigmore, Furbo, County Galway, Republic of Ireland Citizenship Irish Post Office Address (As Above) Full name of tenth inventor Karen Margaret Reddin Signature of tenth inventor	

HAWPOOCSIOWSLFORMSUSFORMSZ1091USCLOŚĆ SKQF Rev, 92/98 mac (Supply similar information and signature for subsequent joint inventors, if any)

Certificate Under 37 C.F.R. § 3.73(b)

Applicant/Patent Owner: Andrew Robinson, Andrew Richard Gorringe, Michael John Hudson, Philippa Bracegirdle, and Karen Reddin
Application No./Patent No.: (to be assigned) Filed/Issue Date: herewith
Entitled: Neisserial vaccine compositions and methods
Microbiological Research Authority , a government agency
(Name of Assignee) (Type of Assignee, e.g., corporation, partnership, university, government agency, etc.)
states that it is:
1. [] the assignee of the entire right, title, and interest, or
2. [X] an assignee of an undivided part interest
in the patent application/patent identified above by virtue of either:
A. [X] An Assignment from the inventor(s) of the patent application/patent identified above. The assignment was recorded in the Patent and Trademark Office at Reel, Frame, or for which a copy thereof is attached. OR
B. [] A chain of title from the inventor(s) of the patent application/patent identified above to the current assignee as shown below:
1. From:
2. From:To:
To:
[] Additional documents in the chain of title are listed on a supplemental sheet.
[] Copies of assignments or other documents in the chain of title are attached. [NOTE: A separate copy (i.e., the original assignment document or a true copy of the original document) must be submitted to Assignment Division in accordance with 37 CFR Part 3, if the assignment is to be recorded in the records of the PTO. See MPEP 302-302.8]
The undersigned (whose title is supplied below) is empowered to act on behalf of the assignee.
22 JANUARY 2002 Date:
SER OCTABOA MAA (AMA).
Signature:
21091CON.CER SKGF Rev.11/1098 mac

DO NOT FORWARD TO ASSIGNMENT BRANCH NOT FOR RECORDATION

ASSIGNMENT

In consideration of the sum of One Dollar (\$1.00) or equivalent and other good and valuable consideration paid to each of the undersigned inventor(s): <u>Andrew Robinson</u>, <u>Andrew Richard Gorringe</u>, <u>Michael John Hudson</u>, <u>Philippa Bracegirdle and Karen Margaret Reddin</u>, the undersigned inventor(s) hereby sell(s) and assign(s) to <u>Microbiological Research Authority</u>, <u>CAMR Porton Down</u>, <u>Salisbury</u>, <u>Wiltshire SP4 OJG, Great Britain</u> (the Assignee) his/her entire right, title and interest, including the right to sue for and collect for all past, present and future damages:

check applicable box(es) of for the United States of America (as defined in 35 U.S.C. § 100), and throughout the world,

- (a) in the invention(s) known as Neisserial vaccine compositions and methods for which application(s) for patent in the United States of America has (have) been executed by the undersigned on 22 JANUARY 2002 (also known as United States Application No. 29/942563 filed \$181/01), in any and all applications thereon, in any and all Letters Patent(s) therefor, and
- (b) in any and all applications that claim the benefit of the patent application listed above in part (a), including continuing applications, reissues, extensions, renewals and reexaminations of the patent application or Letters Patent therefor listed above in part (a), to the full extent of the term or terms for which Letters Patents issue, and
- (c) in any and all inventions described in the patent application listed above in part (a), and in any and all forms of intellectual and industrial property protection derivable from such patent application, and that are derivable from any and all continuing applications, reissues, extensions, renewals and reexaminations of such patent application, including, without limitation, patents, applications, utility models, inventor's certificates, and designs together with the right to file applications therefor; and including the right to claim the same priority rights from any previously filed applications under the International Agreement for the Protection of Industrial Property, or any other international agreement, or the domestic laws of the country in which any such application is filed, as may be applicable;

all such rights, title and interest to be held and enjoyed by the above-named Assignee, its successors, legal representatives and assigns to the same extent as all such rights, title and interest would have been held and enjoyed by the Assignor had this assignment and sale not been made.

The undersigned inventor(s) agree(s) to execute all papers necessary in connection with the application(s) and any continuing (continuation, divisional, or continuation-in-part), reissue, reexamination or corresponding application(s) thereof and also to execute separate assignments in connection with such application(s) as the Assignee may deem necessary or expedient.

The undersigned inventor(s) agree(s) to execute all papers necessary in connection with any interference or patent enforcement action (judicial or otherwise) related to the application(s) or any continuing (continuation, divisional, or continuation-in-part), reissue or reexamination application(s) thereof and to cooperate with the Assignce in every way possible in obtaining evidence and going forward with such interference or patent enforcement action.

The undersigned inventor(s) hereby represent(s) that he/she has full right to convey the entire interest herein assigned, and that he/she has not executed, and will not execute, any agreement in conflict therewith.

DO NOT FORWARD TO ASSIGNMENT BRANCH NOT FOR RECORDATION

Ruo No. Reg. No. 32,893 KIND AD-BROKE LAITS

The undersigned inventor(s) hereby grant(s) Robert Greene Sterne, Esquire, Registration No. 28,912; Edward J. Kessler, Esquire, Registration No. 25,688; Jorge A. Goldstein, Esquire, Registration No. 29,021; Samuel L. Fox, Esquire, Registration No. 30,353; David K.S. Cornwell, Esquire, Registration No. 31,944; Robert W. Esmond, Esquire, Registration No. 32,893; Tracy-Gene G. Durkin, Esquire, Registration No. 32,831; Michael A. Cimbala, Esquire, Registration No. 33,851; Michael B. Ray, Esquire, Registration No. 33,997; Robert E. Sokohl, Esquire, Registration No. 36,013; Eric K. Steffe, Esquire, Registration No. 36,688; Michael Q. Lee, Esquire, Registration No. 35,239; and Steven R. Ludwig, Registration No. 36,203, of STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C., 1100 New York Avenue, N.W., Suite 600, Washington, D.C. 20005-3934, power to insert in this assignment any further identification that may be necessary or desirable in order to comply with the rules of the United States Patent and Trademark Office for recordation of this document.

IN WITNESS WHEREOF, executed by the undersigned inventor(s) on the date opposite his/her name.

AR SARAHAN CONSIS

11 - b.

Date:	22 JANUARY 2002	Signature of Inventor: Andrew Robinson
Date:	22 JANUARY 2002	Signature of Inventor: A. R. Comus L Andrew Richard Gorginge
Date:	22 JANUARY 2002	Signature of Inventor: Michael John Hudson
Date:	22 JANUARY 2002	Signature of Inventor: Philippa Bracegirdle
Date:	22 JANUARY 2002	Signature of Inventor: W.M. Lell

POWER OF ATTORNEY FROM ASSIGNEE WITH DELEGATION

Microbiological Research Authority, having a principal place of business at Centre for Applied Microbiology and Research (CAMR), Porton Down, Salisbury, SP4 0JG, United Kingdom, is assigned of the entire right, title, and interest for the United States of America (as defined in 35 U.S.C. §100), by reason of an Assignment to the of an invention known as Neisserial vaccine compositions and Assignee executed on 22 JANUARY 2002 methods (Attorney Docket No. 1581.00840001), which is disclosed and claimed in a patent application of the same title by the inventor(s) Andrew Robinson, Andrew Richard Gorringe, Michael John Hudson, Philippa Bracegirdle, John Simon Kroll, Paul Richard Langford, Steven Anthony Rochford Webb, Keith Cartwright, Cliona O'Dwyer and Karen Margaret Reddin (said application filed on Aug. 3/ 200/ at the U.S. Patent and Trademark Office, having Application Number 69 1942,583).

The Assignee hereby appoints the following U.S. attorneys to prosecute this application and any continuation, divisional, continuation-in-part, or reissue application thereof, and to transact all business in the U.S. Patent and Trademark Office connected therewith: Robert Greene Sterne, Registration No. 28,912; Edward J. Kessler, Registration No. 25,688; Jorge A. Goldstein, Registration No. 29,021; Samuel L. Fox, Registration No. 30,353; David K.S. Cornwell, Registration No. 31,944; Robert W. Esmond, Registration No. 32,893; Tracy-Gene G. Durkin, Registration No. 32,831; Michele A. Cimbala, Registration No. 33,851; Michael B. Ray, Registration No. 33,997; Robert E. Sokohl, Registration No. 36,013; Eric K. Steffe, Registration No. 36,688; Michael Q. Lee, Registration No. 35,239; and Steven R. Ludwig, Registration No. 36,203. The Assignee hereby grants said attorneys the power to insert on this Power of Attorney any further identification that may be necessary or desirable in order to comply with the rules of the U.S. Patent and Trademark Office.

The Assignee hereby authorizes the U.S. attorneys named herein to accept and follow instructions from Mathys & Squire, 100 Gray's Inn Road, London WC1X 8AL, Great Britain as to any action to be taken in the U.S. Patent and Trademark Office regarding this application without direct communication between the U.S. attorneys and the Assignee. In the event of a change in the persons from whom instructions may be taken, the U.S. attorneys named herein will be so notified by the Assignee.

Send correspondence to:

STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C. 1100 New York Avenue, N.W. Suite 600 Washington, D.C. 20005-3934 U.S.A.

Direct phone calls to 202-371-2600.

FOR:	Microbiological Research Authority	
SIGNATURE:	10 los autos	
BY:	JWHARLER	
TITLÉ:	SECRETARY MRA, CAMP	
DATE:	22 JANUARY 2002	

Certificate Under 37 C.F.R. § 3.73(b)

Applicant/Patent Owner: John Simon Kroll, Paul Richard Langford, Cliona Anne O'Dwyer and Steven Anthony Rochford Webb
Application No /Patent No.: (to be assigned) Filed/Issue Date: herewith
Entitled: Neisserial vaccine compositions and methods
Imperial College Innovations Ltd , a <u>Corporation</u> , (Name of Assignee, e.g., corporation, partnership, university, government agency, etc.)
states that it is:
1. [] the assignee of the entire right, title, and interest, or
2. [X] an assignee of an undivided part interest
in the patent application/patent identified above by virtue of either:
A. [X] An Assignment from the inventor(s) of the patent application/patent identified above. The assignmen was recorded in the Patent and Trademark Office at Reel, Frame, or for which a copy thereof is attached.
OR
B.[] A chain of title from the inventor(s) of the patent application/patent identified above to the current assignee as shown below:
1. From:To:
2. From:
3. From: To: To: The document was recorded in the Patent and Trademark Office at Reel, Frame, or for which a copy thereof is attached.
[] Additional documents in the chain of title are listed on a supplemental sheet.
[] Copies of assignments or other documents in the chain of title are attached. [NOTE: A separate copy (i.e., the original assignment document or a true copy of the original document) must be submitted to Assignment Division in accordance with 37 CFR Part 3, if the assignment is to be recorded in the records of the PTO. See MPEP 302-302.8]
The undersigned (whose title is supplied below) is empowered to act on behalf of the assignee.
Date:18 MARCH 2002
Name: 5.5cape E
Title: SE MANAYING DIRECTOR
Signature:
21091US2.CER SKGP Rev.11/1098 mide

DO NOT FORWARD
TO ASSIGNMENT BRANCH
NOT FOR RECORDATION

ASSIGNMENT

In consideration of the sum of One Dollar (\$1.00) or equivalent and other good and valuable consideration paid to each of the undersigned inventor(s): <u>John Simon Kroll</u>, <u>Paul Richard Langford</u>, <u>Steven Anthony Rochford Webb and Cliona Anne O'Dwyer</u>, the undersigned inventor(s) hereby sell(s) and assign(s) to <u>Imperial College Innovations Ltd</u>, <u>47 Prince's Gate</u>, <u>London SW7 2OA</u>, <u>Great Britain</u> (the Assignee) his/her entire right, title and interest, including the right to sue for and collect for all past, present and future damages:

check applicable box(es)

■ for the United States of America (as defined in 35 U.S.C. § 100),

■ and throughout the world,

- (a) in the invention(s) known as Neisserial vaccine compositions and methods for which application(s) for patent in the United States of America has (have) been executed by the undersigned on 25 JANUARY & 4TH & 14TH MARCH 2002 (also known as United States Application No. 29 942 583, filed Aug 31, 2001), in any and all applications thereon, in any and all Letters Patent(s) therefor, and
- (b) in any and all applications that claim the benefit of the patent application listed above in part (a), including continuing applications, reissues, extensions, renewals and reexaminations of the patent application or Letters Patent therefor listed above in part (a), to the full extent of the term or terms for which Letters Patents issue, and
- (c) in any and all inventions described in the patent application listed above in part (a), and in any and all forms of intellectual and industrial property protection derivable from such patent application, and that are derivable from any and all continuing applications, reissues, extensions, renewals and reexaminations of such patent application, including, without limitation, patents, applications, utility models, inventor's certificates, and designs together with the right to file applications therefor; and including the right to claim the same priority rights from any previously filed applications under the International Agreement for the Protection of Industrial Property, or any other international agreement, or the domestic laws of the country in which any such application is filed, as may be applicable;

all such rights, title and interest to be held and enjoyed by the above-named Assignee, its successors, legal representatives and assigns to the same extent as all such rights, title and interest would have been held and enjoyed by the Assignor had this assignment and sale not been made.

The undersigned inventor(s) agree(s) to execute all papers necessary in connection with the application(s) and any continuing (continuation, divisional, or continuation-in-part), reissue, reexamination or corresponding application(s) thereof and also to execute separate assignments in connection with such application(s) as the Assignee may deem necessary or expedient.

The undersigned inventor(s) agree(s) to execute all papers necessary in connection with any interference or patent enforcement action (judicial or otherwise) related to the application(s) or any continuing (continuation, divisional, or continuation-in-part), reissue or reexamination application(s) thereof and to cooperate with the Assignee in every way possible in obtaining evidence and going forward with such interference or patent enforcement action.

The undersigned inventor(s) hereby represent(s) that he/she has full right to convey the entire interest herein assigned, and that he/she has not executed, and will not execute, any agreement in conflict therewith.

DO NOT FORWARD TO ASSIGNMENT BRANCH NOT FOR RECORDATION

Ry No.

The undersigned inventor(s) hereby grant(s) Robert Greene Sterne, Esquire, Registration No. 28,912; Edward J. Kessler, Esquire, Registration No. 25,688; Jorge A. Goldstein, Esquire, Registration No. 29,021; Samuel L. Fox, Esquire, Registration No. 30,353; David K.S. Cornwell. Esquire, Registration No. 31,944; Robert W. Esmond, Esquire, Registration No. 32,893; Tracy-Gene G. Durkin, Esquire, Registration No. 32,831; Michael A. Cimbala, Esquire, Registration No. 33,851; Michael B. Ray, Esquire, Registration No. 33,997; Robert E. Sokohl, Esquire, Registration No. 36,013; Eric K. Steffe, Esquire, Registration No. 36,688; Michael Q. Lee, Esquire, Registration No. 35,239; and Steven R. Ludwig, Registration No. 36,203, of STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C., 1100 New York Avenue, N.W., Suite 600, Washington, D.C. 20005-3934, power to insert in this assignment any further identification that may be necessary or desirable in order to comply with the rules of the United States Patent and Trademark Office for recordation of this document.

IN WITNESS WHEREOF, executed by the undersigned inventor(s) on the date opposite his/her name.

Date:	25 JANUARY 2002	Signature of Inventor:	John Simon Kroll
Date:	25 JANUARY 2002	Signature of Inventor:	Paul Richard Langford
Date:		Signature of Inventor:	Steven Anthony Rochford Webb
Date:	14 MARCH 2002	Signature of Inventor:	Cliona Anne O'Dwyer

DO NOT FORWARD
TO ASSIGNMENT BRANCH
NOT FOR RECORDATION

ASSIGNMENT

In consideration of the sum of One Dollar (\$1.00) or equivalent and other good and valuable consideration paid to each of the undersigned inventor(s): <u>John Simon Kroll</u>, <u>Paul Richard Langford</u>, <u>Steven Anthony Rochford Webb and Cliona Anne O'Dwyer</u>, the undersigned inventor(s) hereby sell(s) and assign(s) to <u>Imperial College Innovations Ltd.</u> <u>47 Prince's Gate, London SW7 2OA</u>, <u>Great Britain</u> (the Assignee) his/her entire right, title and interest, including the right to sue for and collect for all past, present and future damages:

check applicable box(es)

■ for the United States of America (as defined in 35 U.S.C. § 100),

■ and throughout the world,

- (a) in the invention(s) known as Neisserial vaccine compositions and methods for which application(s) for patent in the United States of America has (have) been executed by the undersigned on 14 MARCH 2002 (also known as United States Application No. 09/942553) filed Aug 31, 2001), in any and all applications thereon, in any and all Letters Patent(s) therefor, and
- (b) in any and all applications that claim the benefit of the patent application listed above in part (a), including continuing applications, reissues, extensions, renewals and reexaminations of the patent application or Letters Patent therefor listed above in part (a), to the full extent of the term or terms for which Letters Patents issue, and
- (c) in any and all inventions described in the patent application listed above in part (a), and in any and all forms of intellectual and industrial property protection derivable from such patent application, and that are derivable from any and all continuing applications, reissues, extensions, renewals and reexaminations of such patent application, including, without limitation, patents, applications, utility models, inventor's certificates, and designs together with the right to file applications therefor; and including the right to claim the same priority rights from any previously filed applications under the International Agreement for the Protection of Industrial Property, or any other international agreement, or the domestic laws of the country in which any such application is filed, as may be applicable;

all such rights, title and interest to be held and enjoyed by the above-named Assignee, its successors, legal representatives and assigns to the same extent as all such rights, title and interest would have been held and enjoyed by the Assignor had this assignment and sale not been made.

The undersigned inventor(s) agree(s) to execute all papers necessary in connection with the application(s) and any continuing (continuation, divisional, or continuation-in-part), reissue, reexamination or corresponding application(s) thereof and also to execute separate assignments in connection with such application(s) as the Assignee may deem necessary or expedient.

The undersigned inventor(s) agree(s) to execute all papers necessary in connection with any interference or patent enforcement action (judicial or otherwise) related to the application(s) or any continuing (continuation, divisional, or continuation-in-part), reissue or reexamination application(s) thereof and to cooperate with the Assignee in every way possible in obtaining evidence and going forward with such interference or patent enforcement action.

The undersigned inventor(s) hereby represent(s) that he/she has full right to convey the entire interest berein assigned, and that he/she has not executed, and will not execute, any agreement in conflict therewith.

DO NOT FORWARD
TO ASSIGNMENT BRANCH
NOT FOR RECORDATION

Page 1 of 2

Rus Reg. No. The undersigned inventor(s) hereby grant(s) Robert Greene Steme, Esquire, Registration No. 28,912; Edward J. Kessler, Esquire, Registration No. 25,688; Jorge A. Goldstein, Esquire, Registration No. 29,021; Samuel L. Fox, Esquire, Registration No. 30,353; David K.S. Cornwell, Esquire, Registration No. 31,944; Robert W. Esmond, Esquire, Registration No. 32,893; Tracy-Gene G. Durkin, Esquire, Registration No. 32,831; Michele A. Cimbala, Esquire, Registration No. 33,851; Michael B. Ray, Esquire, Registration No. 33,997; Robert E. Sokohl, Esquire, Registration No. 36,013; Eric K. Steffe, Esquire, Registration No. 36,688; Michael Q. Lee, Esquire, Registration No. 35,239; and Steven R. Ludwig, Registration No. 36,203, of STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C., 1100 New York Avenue, N.W., Suite 600, Washington, D.C. 20005-3934, power to insert in this assignment any further identification that may be necessary or desirable in order to comply with the rules of the United States Patent and Trademark Office for recordation of this document.

IN WITNESS WHERBOF, executed by the undersigned inventor(s) on the date opposite his/her name.

Date:		Signature of Inventor:	ohn Simon Kroll
Date:		Signature of Inventor.	Paul Richard Langford
Date:	14 MARCH 2002	Signature of Inventor:	Steven Anthony Rochford Webb
Date:		Signature of Inventor:	Clique Anne O'Duver

POWER OF ATTORNEY FROM ASSIGNEE WITH DELEGATION

Imperial College Innovations Ltd_, having a principal place of business at 47 Prince's Gate, London SW7 2QA, United Kingdom, is assignee of the entire right, title, and interest for the United States of America (as defined in 35 U.S.C. §100), by reason of an Assignment to the Assignee executed on 5 JANUARY &14 MARCI of Affinivention known as Neisserial vaccine compositions and methods (Attorney Docket No. 1581.00840001), which is disclosed and claimed in a patent application of the same title by the inventor(s) Andrew Robinson, Andrew Richard Gorringe, Michael John Hudson, Philippa Bracegirdle, John Simon Kroll, Paul Richard Langford, Steven Anthony Rochford Webb, Keith Cartwright, Cliona O'Dwyer and Karen Margaret Reddin (said application filed on 191942, 583).

(UVO Pez Nr 32853

The Assignee hereby appoints the following U.S. attorneys to prosecute this application and any continuation, divisional, continuation-in-part, or reissue application thereof, and to transact all business in the U.S. Patent and Trademark Office connected therewith: Robert Greene Sterne, Registration No. 28,912; Edward J. Kessler, Registration No. 25,688; Jorge A. Goldstein, Registration No. 29,021; Samuel L. Fox, Registration No. 30,353; David K.S. Cornwell, Registration No. 31,944; Robert W. Esmond, Registration No. 32,893; Tracy-Gene G. Durkin, Registration No. 32,831; Michael A. Cimbala, Registration No. 33,851; Michael B. Ray, Registration No. 33,997; Robert E. Sokohl, Registration No. 36,013; Eric K. Steffe, Registration No. 36,688; Michael Q. Lee, Registration No. 35,239; and Steven R. Ludwig, Registration No. 36,203. The Assignee hereby grants said attorneys the power to insert on this Power of Attorney any further identification that may be necessary or desirable in order to comply with the rules of the U.S. Patent and Trademark Office.

The Assignee hereby authorizes the U.S. attorneys named herein to accept and follow instructions from Mathys & Squire, 100 Gray's Inn Road, London WC1X 8AL, Great Britain as to any action to be taken in the U.S. Patent and Trademark Office regarding this application without direct communication between the U.S. attorneys and the Assignee. In the event of a change in the persons from whom instructions may be taken, the U.S. attorneys named herein will be so notified by the Assignee.

Send correspondence to:

STERNÉ, KESSLER, GOLDSTEIN & FOX P.L.L.C. 1100 New York Avenue, N.W. Suite 600 Washington, D.C. 20005-3934 U.S.A.

Direct phone calls to 202-371-2600.

FOR:	Imperial College Innovations Ltd	
SIGNATURE:	9	
BY:	SUSAN SCARLE	
TITLE:	managina director	
DATE:	18 MARCH 2002	

Certificate Under 37 C.F.R. § 3.73(b)

Applican	t/Patent Owner:	Keith Cartwright		
Applicati	ion No./Patent No.:	(to be assigned)	Filed/Issue Date: herew	<u>rith</u>
Entitled:	Neisserial yac	cine compositions and met	<u>hods</u>	
<u>Public H</u>	calth Laboratory Se	rvice Board	, a <u>Government agency</u>	
	(NAME of Vanig		(Type of Assignee, e.g., corporation, partnership, university, government agency	y,rtc.)
states the	at it is:			
1. []	the assignee of the	entire right, title, and inter	est, or	
2. [X]	an assignee of an u	ndivided part interest		
in the pa	ntent application/pat	ent identified above by vir	tue of either:	
A. [X] OR	An Assignment from was recorded in the thereof is attached	e Patent and Trademark Of	atent application/patent identified above. The assignment at Reel, Frame, or for which a	mment a copy
B. []	A chain of title fro assignce as shown	m the inventor(s) of the pa below:	tent application/patent identified above to the curre	ent
	The docu	To: ment was recorded in the l	Patent and Trademark Office at, or for which a copy thereof is attached.	
	2. From: The docu Reel	To: ment was recorded in the l	Patent and Trademark Office at, or for which a copy thereof is attached.	
	3. From: The docu Reel	ment was recorded in the	Patent and Trademark Office at, or for which a copy thereof is attached.	
	[] Additional doc	numents in the chain of title	e are listed on a supplemental sheet.	
[[*]] Cop	(NOTE: A separa	e submitted to Assignment	hain of title arc attached. ssignment document or a true copy of the original t Division in accordance with 37 CFR Part 3, if ds of the PTO. See MPEP 302-302.8]	
The un	dersigned (whose ti	tle is supplied below) is en	npowered to act on behalf of the assignee.	
Date:	30 JAN	JARY 2002		
Name:	Kany	SAN BERLE		
Title:	Deoug	y Dienoe	of the service	
Signati	ure:	whome u		
21091US3. SKGF Rev.	CER .11/10/98 mate	- -		

DO NOT FORWARD TO ASSIGNMENT BRANCH NOT FOR RECORDATION

ASSIGNMENT

In consideration of the sum of One Dollar (\$1.00) or equivalent and other good and valuable consideration paid to each of the undersigned inventor(s): Keith Cartwright, the undersigned inventor(s) hereby sell(s) and assign(s) to Public Health Laboratory Service Board, 61 Colindale Avenue, London NW9 5DF. Great Britain (the Assignee) his/her entire right, title and interest, including the right to sue for and collect for all past, present and future damages:

check applicable box(es) of for the United States of America (as defined in 35 U.S.C. § 100), and throughout the world,

- (a) in the invention(s) known as Neisserial vaccine compositions and methods for which application(s) for patent in the United States of America has (have) been executed by the undersigned on 29 JANIIARY2002 (also known as United States Application No. 09/942,583, filed Aug. 3/, 200/), in any and all applications thereon, in any and all Letters Patent(s) therefor, and
- (b) in any and all applications that claim the benefit of the patent application listed above in part (a), including continuing applications, reissues, extensions, renewals and reexaminations of the patent application or Letters Patent therefor listed above in part (a), to the full extent of the term or terms for which Letters Patents issue, and
- (c) in any and all inventions described in the patent application listed above in part (a), and in any and all forms of intellectual and industrial property protection derivable from such patent application, and that are derivable from any and all continuing applications, reissues, extensions, renewals and reexaminations of such patent application, including, without limitation, patents, applications, utility models, inventor's certificates, and designs together with the right to file applications therefor; and including the right to claim the same priority rights from any previously filed applications under the International Agreement for the Protection of Industrial Property, or any other international agreement, or the domestic laws of the country in which any such application is filed, as may be applicable;

all such rights, title and interest to be held and enjoyed by the above-named Assignee, its successors, legal representatives and assigns to the same extent as all such rights, title and interest would have been held and enjoyed by the Assignor had this assignment and sale not been made.

The undersigned inventor(s) agree(s) to execute all papers necessary in connection with the application(s) and any continuing (continuation, divisional, or continuation-in-part), reissue, reexamination or corresponding application(s) thereof and also to execute separate assignments in connection with such application(s) as the Assignee may deem necessary or expedient.

The undersigned inventor(s) agree(s) to execute all papers necessary in connection with any interference or patent enforcement action (judicial or otherwise) related to the application(s) or any continuing (continuation, divisional, or continuation-in-part), reissue or reexamination application(s) thereof and to cooperate with the Assignee in every way possible in obtaining evidence and going forward with such interference or patent enforcement action.

The undersigned inventor(s) hereby represent(s) that he/she has full right to convey the entire interest herein assigned, and that he/she has not executed, and will not execute, any agreement in conflict therewith.

DO NOT FORWARD TO ASSIGNMENT BRANCH NOT FOR RECORDATION

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The undersigned inventor(s) hereby grant(s) Robert Greene Sterne, Esquire, Registration No. 28,912; Edward J. Kessler, Esquire, Registration No. 25,688; Jorge A. Goldstein, Esquire, Registration No. 29,021; Samuel L. Fox, Esquire, Registration No. 30,353; David K.S. Cornwell, Esquire, Registration No. 31,944; Robert W. Esmond, Esquire, Registration No. 32,893; Tracy-Gene G. Durkin, Esquire, Registration No. 32,831; Michael A. Cimbala, Esquire, Registration No. 33,851; Michael B. Ray, Esquire, Registration No. 33,997; Robert E. Sokohl, Esquire, Registration No. 36,013; Eric K. Steffe, Esquire, Registration No. 36,688; Michael Q. Lee, Esquire, Registration No. 35,239; and Steven R. Ludwig, Registration No. 36,203, of STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C., 1100 New York Avenue, N.W., Suite 600, Washington, D.C. 20005-3934, power to insert in this assignment any further identification that may be necessary or desirable in order to comply with the rules of the United States Patent and Trademark Office for recordation of this document.

IN WITNESS WHEREOF, executed by the undersigned inventor(s) on the date opposite his/her name.

Date:	29	JANUARY2002	Signature of Inventor:	KAV.	Mynthers	
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POWER OF ATTORNEY FROM ASSIGNEE WITH DELEGATION

Public Health Laboratory Service Board, having a principal place of business at 61 Colindale Avenue, London NW9 5DF, United Kingdom, is assignee of the entire right, title, and interest for the United States of America (as defined in 35 U.S.C. §100), by reason of an Assignment to the Assignee executed on 29 JANUARY2002 of an invention known as Neisserial vaccine compositions and methods (Attorney Docket No. 1581.00840001), which is disclosed and claimed in a patent application of the same title by the inventor(s) Andrew Robinson, Andrew Richard Gorringe, Michael John Hudson, Philippa Bracegirdle, John Simon Kroll, Paul Richard Langford, Steven Anthony Rochford Webb, Keith Cartwright, Cliona O'Dwyer and Karen Margaret Reddin (said application filed on August 11, 2001 at the U.S. Patent and Trademark Office, having Application Number 09/942, 583).

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The Assignee hereby appoints the following U.S. attorneys to prosecute this application and any continuation, divisional, continuation-in-part, or reissue application thereof, and to transact all business in the U.S. Patent and Trademark Office connected therewith: Robert Greene Sterne, Registration No. 28,912; Edward J. Kessler, Registration No. 25,688; Jorge A. Goldstein, Registration No. 29,021; Samuel L. Fox, Registration No. 30,353; David K.S. Cornwell, Registration No. 31,944; Robert W. Esmond, Registration No. 32,893; Tracy-Gene G. Durkin, Registration No. 32,831; Michael A. Cimbala, Registration No. 33,851; Michael B. Ray, Registration No. 33,997; Robert E. Sokohl, Registration No. 36,013; Eric K. Steffe, Registration No. 36,688; Michael Q. Lee, Registration No. 35,239; and Steven R. Ludwig, Registration No. 36,203. The Assignee hereby grants said attorneys the power to insert on this Power of Attorney any further identification that may be necessary or desirable in order to comply with the rules of the U.S. Patent and Trademark Office.

The Assignee hereby authorizes the U.S. attorneys named herein to accept and follow instructions from Mathys & Squire, 100 Grav's Inn Road, London WC1X 8AL, Great Britain as to any action to be taken in the U.S. Patent and Trademark Office regarding this application without direct communication between the U.S. attorneys and the Assignee. In the event of a change in the persons from whom instructions may be taken, the U.S. attorneys named herein will be so notified by the Assignee.

Send correspondence to:

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Direct phone calls to 202-371-2600.

FOR:	Public Health Laboratory Service Board
SIGNATURE:	Indamil
BY:	KATH SALNBONS
TITLE:	DETVIY BYONETOR OF THE SERVICE
DATE:	30 JANUARY 2002

OSTERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C., 1999

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